

# Re: Excellent Venus Express Launch Photos

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*Source:* <http://sci.tech--archive.net/Archive/sci.space.policy/2005-11/msg00172.html>

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- *From:* Damon Hill <[damonunoseisuno@xxxxxxxxxxxxx](mailto:damonunoseisuno@xxxxxxxxxxxxx)>
  - *Date:* Wed, 09 Nov 2005 14:53:34 -0600
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"Ed Kyle" <[edkyle99@xxxxxxxxxxxxx](mailto:edkyle99@xxxxxxxxxxxxx)> wrote in  
<news:1131563353.520648.189210@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>:

- > A series of very nice photos of the preparation and
- > launch of Soyuz FG/Fregat ST-14 with ESA's
- > Venus Express are at the following web site:
- >
- > "<http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=31141&farc>
- > [hive\\_objectypeid=18&farchive\\_objectid=30912](http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=31141&farc)"
- >
- > These are probably the best R-7 launch photos I've
- > seen.

The resolution in the pad liftoff image has enough detail to show optical heat distortion of the exhaust plume in the background; I've never noticed that before in any photograph.

Great detail of the pad support arms and umbilical arm; they tuck just far enough out of the way that the exhaust plume doesn't impinge on them. For all its simplicity, the R-7 system has a certain elegance.

--DAmon

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◇ *From:* Ed Kyle

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◇ *From:* Ed Kyle

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